Digital Signage Player
AMD T56N 1.65GHz, SSD, POSReady7, DVI-I

DS-080D Series
User's Manual

CONTEC CO.,LTD.

Check Your Package

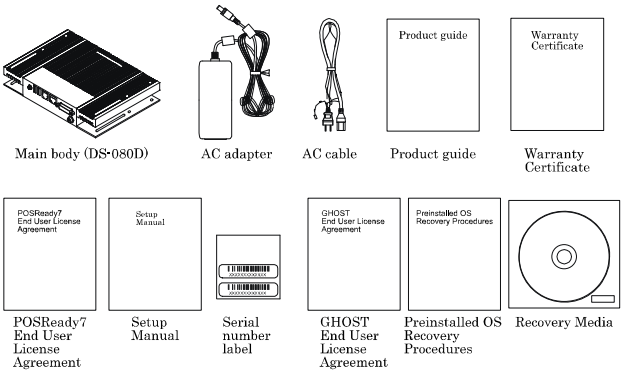
Thank you for purchasing the CONTEC product.
The product consists of the items listed below.
Check, with the following list, that your package is complete. If you discover damaged or missing items, contact your retailer.

Product Configuration List

	DS-080D-DC6413
Name	Pcs.
The main body	1
AC adapter	1
AC cable *1	1
Product guide	1
Warranty Certificate	1
POSReady7 End User License Agreement	1
Setup Manual	1
Serial number label	1
GHOST End User License Agreement	1
Preinstalled OS Recovery Procedures	1
Recovery Media	1

*1 Do not use this AC power cable with any devices except for an attached AC adaptor.

Product Configuration Image



* See the Product Configuration List to check if all the components are included for the specified number of units.

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1. Introduction

About the Product

This is STB for signage, working with AMD G-Series Dual-Core APU (Accelerated Processing Unit) T56N 1.65GHz.
CPU with enhanced graphics performance helps Full-HD movie to be played smoothly with DVI-I interface.
SSD can be installed as storage. The body is so compact and supports SATA interface which can transport data at high speed. It enables you to read high-quality movie, store so big data and transport data at high bit rate.

DS Series are the products assumed to be used at ordinary environment and market as "Digital Signage".Operating environment condition, supply period, maintenance period and other conditions are different from ones of our industrial products (IPC Series, BOX-PC, PT-Series and others).For details, please consult our retailer.

Features

Integrated processor with CPU and GPU
This product is equipped with AMD G-series Dual-core APU T56N (1.65GHz) that is built-in GPU.

- Discrete GPU-quality graphic processing
  This product has APU that is equipped with GPU (Radeon HD6320) that features discrete GPU-quality.
  It supports DirectX 11 and OpenGL 4, and has built-in UVD3 (Unified Video Decoder)
- Fanless and compact design
  This fanless design is achieved with energy-saving and compact design.
- Major types of peripherals are supported with rich interfaces
  It has a variety of extended interface such as DVI-I, 1000BASE-T x1, USB2.0 x 2, serial (RS-232C). So it can be used for various purposes.
- Pre-installed Windows Embedded POSReady 7
  The OS, Windows Embedded POSReady 7 which is perfect for digital signage use, is pre-installed. There are many functions on this product. Such as write filters (EWF: Enhanced Write Filter and FBWF: File-Based Write Filter) and Microsoft Office Viewer that is a file browser for Word, Excel and PowerPoint.
- Kinect for Windows Runtime (Pre-installed model)
  The installed OS is already equipped with a Runtime module which is required on OS side to trip Kinect for Windows sensor.You can use this product as an application controller which is equipped with NUI (Natural User Interface) that features a control with voice or gestures.

Supported OS

- Windows Embedded POSReady7

Customer Support

CONTEC provides the following support services for you to use CONTEC products more efficiently and comfortably.

Web Site

Japanese	http://www.contec.co.jp/
English	http://www.contec.com/
Chinese	http://www.contec.com.cn/

Latest product information

CONTEC provides up-to-date information on products.
CONTEC also provides product manuals and various technical documents in the PDF.

Free download

You can download updated driver software and differential files as well as sample programs available in several languages.

Note! For product information

Contact your retailer if you have any technical question about a CONTEC product or need its price, delivery time, or estimate information.

Limited One-Year Warranty

CONTEC products are warranted by CONTEC CO., LTD. to be free from defects in material and workmanship for up to one year from the date of purchase by the original purchaser.

Repair will be free of charge only when this device is returned freight prepaid with a copy of the original invoice and a Return Merchandise Authorization to the distributor or the CONTEC group office, from which it was purchased.

This warranty is not applicable for scratches or normal wear, but only for the electronic circuitry and original products. The warranty is not applicable if the device has been tampered with or damaged through abuse, mistreatment, neglect, or unreasonable use, or if the original invoice is not included, in which case repairs will be considered beyond the warranty policy.

How to Obtain Service

For replacement or repair, return the device freight prepaid, with a copy of the original invoice. Please obtain a Return Merchandise Authorization number (RMA) from the CONTEC group office where you purchased before returning any product.

* No product will be accepted by CONTEC group without the RMA number.

Liability

The obligation of the warrantor is solely to repair or replace the product. In no event will the warrantor be liable for any incidental or consequential damages due to such defect or consequences that arise from inexperienced usage, misuse, or malfunction of this device.

Safety Precautions

Understand the following definitions and precautions to use the product safely.

Safety Information

This document provides safety information using the following symbols to prevent accidents resulting in injury or death and the destruction of equipment and resources. Understand the meanings of these labels to operate the equipment safely.

⚠ DANGER	DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.

Caution on the DS-080D Series

Handling Precautions

⚠ DANGER

- This product supports an attached AC adapter and AC cable only.

⚠ WARNING

- Always check that the power supply is turned off before connecting or disconnecting power cables and other cables.
- Users should not attempt to disassemble or modify this equipment, or to replace components. The manufacturer may not be able to provide service for equipment that has been modified by the user.
- This product is not intended for use in aerospace, space, nuclear power, medical equipment, or other applications that require a very high level of reliability. Do not use the product in such applications.
- If using this product in applications where safety is critical such as in railways, automotive, or disaster prevention or security systems, please contact your retailer.
- Do not attempt to replace the battery as inappropriate battery replacement poses a risk of explosion.
- For battery replacement, contact your retailer as it must be performed as a process of repair.
- When disposing of a used battery, follow the disposal procedures stipulated under the relevant laws and/or municipal ordinances.

⚠ CAUTION

- Do not use or store this product in a location exposed to high or low temperature that exceeds range of specification or that is susceptible to rapid temperature changes.
  Example: - Exposure to direct sun - In the vicinity of a heat source
- Do not use this product in extremely humid or dusty locations. It is extremely dangerous to use this product when it is in concact with water or any other fluid or conductive dust. If this product must be used in a dusty environment, install it on a dust-proof control panel, for example.
- Avoid using or storing this product in locations subject to shock or vibration that exceeds range of specification.
- Do not use this product in the vicinity of devices that generate strong magnetic force or noise. Such products will cause this product to malfunction.
- Do not use or store this product in the presence of chemicals.
- To clean this product, wipe it gently with a soft cloth dampened with either water or mild detergent. Do not use chemicals or a volatile solvent, such as benzene or thinner, to prevent pealing or discoloration of the paint.
- This product's case may become hot. To avoid being burned, do not touch the case while this product is in operation or immediately after turning off the power. Avoid installation in a location where people may come into contact with the case.
- CONTEC does not provide any guarantee for the integrity of data on any recording media such as SSD.
- Always remove the power cable from the power outlet before changing hardware configurations such as the connection of connectors, and/or the setting of jumpers and switches.
- To prevent corruption of files, always shutdown the OS before turning off this product.
- CONTEC reserves the right to refuse to service a product modified by the user.
- In the event of failure or abnormality (unusual smells or excessive heat generation), unplug the power cord immediately and contact your retailer.
- To connect with peripherals, use a grounded, shielded cable.
- When transporting this equipment, be careful to protect it against direct vibration and physical shock.
- You cannot clear the BIOS settings on CMOS of this product. The product must be repaired if it becomes unbootable after the change of BIOS settings.

- Caution on the VCCI Class A

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。
VCCI-A

2. System Reference

Specification

Table 2.1. Functional Specification

Model	DS-080D
CPU	AMD G-Series Dual-Core APU (Accelerated Processing Unit): T56N = 1.65GHz @ 18W TDP
Chipset	AMD A50M Controller Hub
BIOS	Manufactured by AMI
Memory	2GB, DDR3-1333
Graphics Controller	AMD Radeon HD6320 Series Built in APU -DirectX 11 -Direct Compute 11 -Open GL 4.0 -Open CL 1.1 -UVD3 Hardware Video Decoder (MPEG2, MPEG4, H.264, VC-1, WMV9)
Interface	
Display	1port (29pin DVI-I connector x1)
Audio	Line-out x 1, 3.5 φ Stereo mini jack,
Serial ATA	1-slot, 2.5inch SATA SSD, 16GB (SLC)
LAN	1port (RJ-45 Connector) Realtek RTL8111C PCI-E Gigabit LAN Controller
USB	2ports (TYPE-A Connector x 2) USB 2.0-compliant
RS-232C	1port (RJ-50 Connector)
Power Supply (AC adapter specification)	This product supports an attached AC adapter and AC cable only.
Input voltage	100-240VAC, 50-60Hz
Input current	1.5A
Rated output voltage	12VDC
Rated output current	5A(Max.)
Longevity *1	61,000H(temperature 25°C FullHD movie playing) 21,000H(temperature 40°C FullHD movie playing)
Physical dimensions (mm)	200(W) x 150(D) x 34.8(H) (No protrusions)
Weight	About 1.3kg
Operating temperature	0 - 40°C
Storage temperature	-10 - 60°C
Humidity	10 - 90%RH (No condensation)
Floating dust particles	Not to be excessive
Corrosive gases	None

*1 This product are designed to use under the good condition.

Physical Dimensions

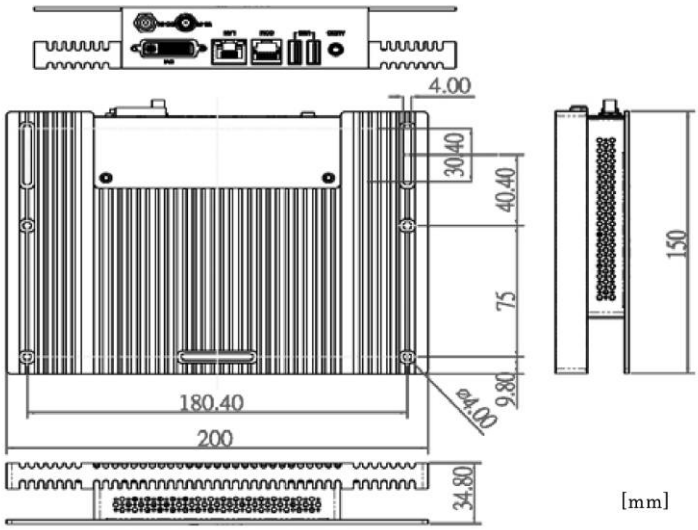


Figure 2.1. Physical Dimensions

3. Hardware Setup

- Before you start, be sure that the power is turned off.

Before Using the Product for the First Time

Follow the next steps to set up this product:

STEP1 By referring to the information in this chapter, install, connect and set this product.

STEP2 Connect cables.
Connect the cable of necessary external devices, such as keyboard and a display, to this product using appropriate cables.

STEP3 Turn on the power.
Check if STEP1-2 were correctly done, again.
Check that AC plug is not connected, then insert DC jack of AC adapter into the product.
Insert AC plug into AC inlet. The product will wake up.
If you feel any abnormality after connection, pull out AC plug quickly,
and then check if all installation was correctly done.
*.This product supports an attached AC adapter and AC cable only.

STEP4 Set up BIOS.
By referring to Chapter 5, set up BIOS. This setup requires a keyboard and a display.

* Before using this product, be sure to execute " Restore Defauls " to initialize the BIOS settings to their default values.
(See Chapter 5, "Save & Exit")

⚠ CAUTION

Be sure to connect the keyboard and mouse to it before turning the power on for the first time.

Hardware Setup

- Before you start, be sure that the power is turned off.

Installation Requirements

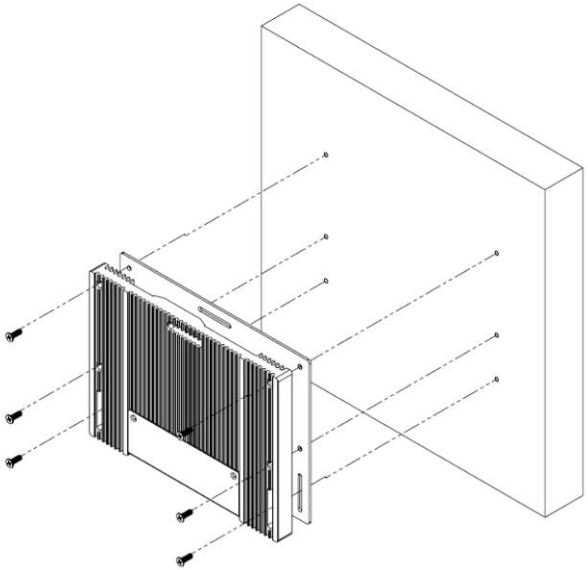


Table 3.1. Installation Requirements

You can install this product on plastic (LCD monitor), wood, drywall surface over studs, or a solid concrete or metal plane directly. Ensure the installer uses at least four M3 length 6mm screws to secure the system on wall. Six M3 length 6mm screws are recommended to secure the system on wall.Fasteners are not included with the unit, and must be supplied by the installer. The types of fasteners required are dependent on the type of wall construction.

4. Each Component Function

Component Name

Front View

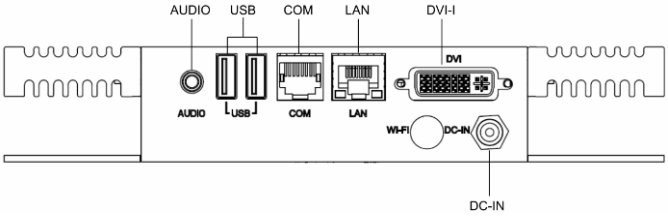


Figure 2.1. Component Name

Table 4.1. Component Function

Name	Function
DC-IN	This product supports an attached AC adapter and AC cable ONLY. Check that AC plug is not connected, then insert DC jack of AC adapter into the product. Insert AC plug into AC inlet. The product will wake up.(Not PowerSW)
DVI	Display(29pin DVI-I x1)
LAN	Ethernet 1000BASE-T/100BASE-TX/10BASE-T RJ-45 connector
COM	Serial port RJ-50 connector
USB	USB port connector x2
AUDIO	Line out (3.5φ phone jack)

Component Function

DC Power Input Connector: DC-IN

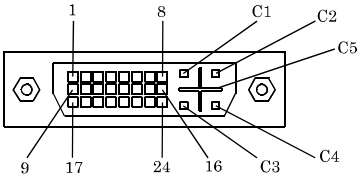
This product supports an attached AC adapter and AC cable only.

Display Interface: DVI-I

Connector for DVI-I Interface is provided. Our flat panel displays can be connected. Connector name is DVI-I (DVI-I 29-pin)

Table 4.2. DVI-I Connector

Connector type	DVI-I 29-pin

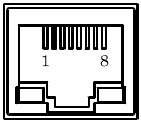


Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
1	DATA2-	13	N.C.	C1	RED
2	DATA2+	14	+5V	C2	GREEN
3	DATA2 SHIELD	15	GND	C3	BLUE
4	N.C.	16	HPD	C4	HSYNC
5	N.C.	17	DATA0-	C5	GND
6	DDC CLK	18	DATA0+		
7	DDC DATA	19	DATA0 SHIELD		
8	VSYNC	20	N.C.		
9	DATA1-	21	N.C.		
10	DATA1+	22	DATA0 SHIELD		
11	DATA1 SHIELD	23	CLK+		
12	N.C.	24	CLK-		

Giga bit-Ethernet: LAN A – B

This product is equipped giga bit.

Table 4.3. Giga bit-Ethernet Connector

Connector type	RJ-45	
		
Pin No.	Signal name	
	100BASE-T	1000BASE-T
1	TX+	TRD+(0)
2	TX-	TRD-(0)
3	RX+	TRD+(1)
4	N.C.	TRD+(2)
5	N.C.	TRD-(2)
6	RX-	TRD-(1)
7	N.C.	TRD+(3)
8	N.C.	TRD-(3)

LEDs for display of network statuses:

Right LED: Link LED

Opertion: Green Blinking

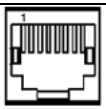
Left LED: Operation LED

10M: Off, 100M: Green, 1000M: Orange

Serial Port Interface: SERIAL A

Connector for Serial Port Interface is provided.

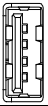
Table 4.4. Serial Port Interface

Connector type	RJ-50	
		
Pin No.	Signal name	
1	DSR	Data set ready
2	GND	Ground
3	GND	Ground
4	TXD	Transmit data
5	RXD	Receive data
6	DCD	Data carrier detect
7	DTR	Data terminal ready
8	CTS	Clear to send
9	RTS	Request to send
10	RI	Ring indicator

USB Ports

This product is equipped USB 2.0 interface.

Table 4.5. USB Connector



Pin No.	Signal name
1	USB_VCC
2	USB-
3	USB+
4	USB_GND

Line out Interface: AUDIO

A line output connector is provided. You can plug a headphone or amplifier-integrated speakers into this connector.

5. BIOS Setup

Introduction

This chapter discusses AMI's Setup program built into the product. The Setup program allows users to modify the basic system configuration.

Starting Setup

The AMI BIOS is immediately activated when you first power on the computer.
By pressing <DEL> immediately after switching the system on, or

If the message disappears before you respond and you still wish to enter Setup, restart the system to try again by turning it OFF then ON. You may also restart by simultaneously pressing <Ctrl>, <Alt>, and <Delete> keys.

Using Setup

In general, you use the arrow keys to highlight items, press <Enter> to select, use the **+** and **-** keys to change entries, press <F1> for help and press <Esc> to quit. The following table provides more detail about how to navigate in the Setup program using the keyboard.

Table 5.1. Using Setup

Key	Function
Up Arrow	Move to the previous item
Down Arrow	Move to the next item
Left Arrow	Move to the item on the left
Right Arrow	Move to the item on the right
Enter	Move to the item you desired
+	Increase the numeric value or make changes
-	Decrease the numeric value or make changes
F1 key	General help on Setup navigation keys
F2 key	Load previous values from CMOS
F3 key	Load the optimized defaults
F4 key	Save all the CMOS changes and exit
Esc	Main Menu : Quit without saving changes Submenus : Exit Current page to the next higher level menu

Getting Help

Press F1 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window press <Enter> key.

In Case of Problems

If, after making and saving system changes with Setup, you discover that your computer no longer is able to boot, we should repair it

The best advice is to only alter settings which you thoroughly understand. To this end, we strongly recommend that you avoid making any changes to the CPU defaults and the chipset defaults. These defaults have been carefully chosen by both Insyde and your systems manufacturer to provide the absolute maximum performance and reliability. Even a seemingly small change to them has the potential for causing you to be repaired.

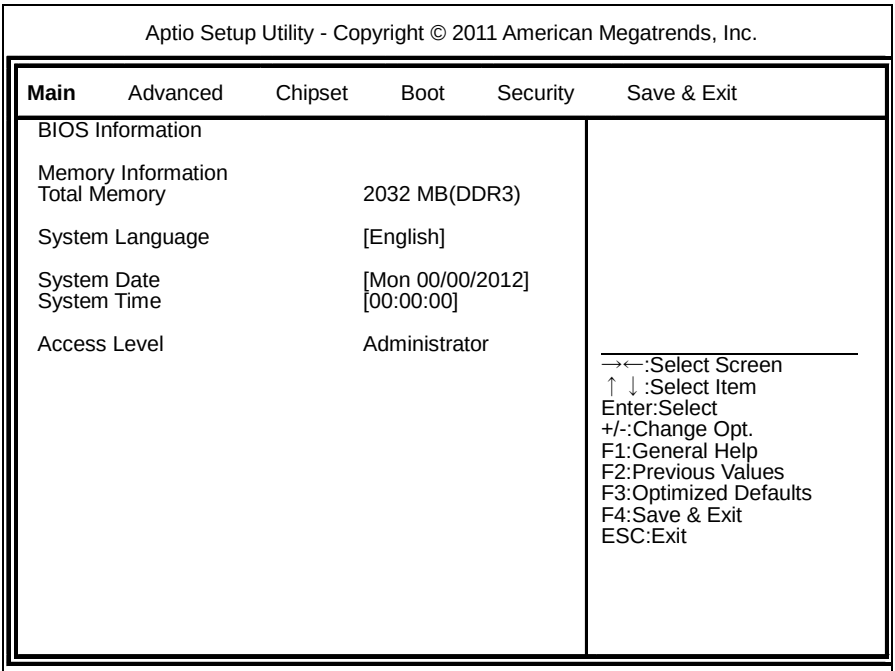
A Final Note About Setup

The information in this chapter is subject to change without notice.

Main

This setup allows you to record some basic hardware configurations in your computer system and set the system clock.

Table 5.2. Main

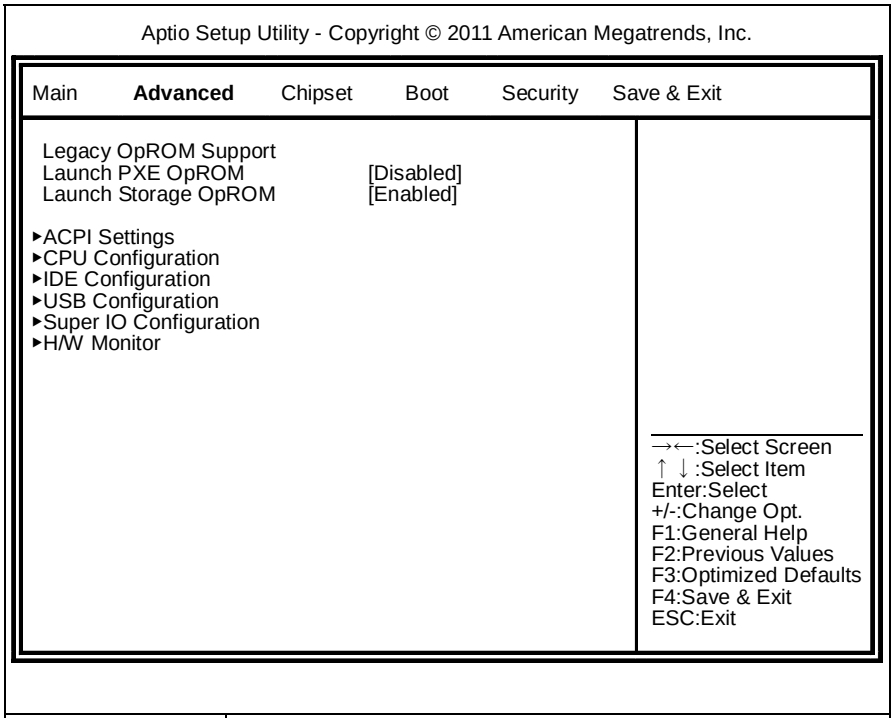


Item	Explanation
System Language	Choose the system defaults language.(English ONLY)
System Date	Set the Date. Use Tab to switch between Data elements.
System Time	Set the Time. Use Tab to switch between Time elements.

Advanced

This section allows you to configure and improve your system and allows you to set up some system features according to your preference.

Table 5.3. Advanced

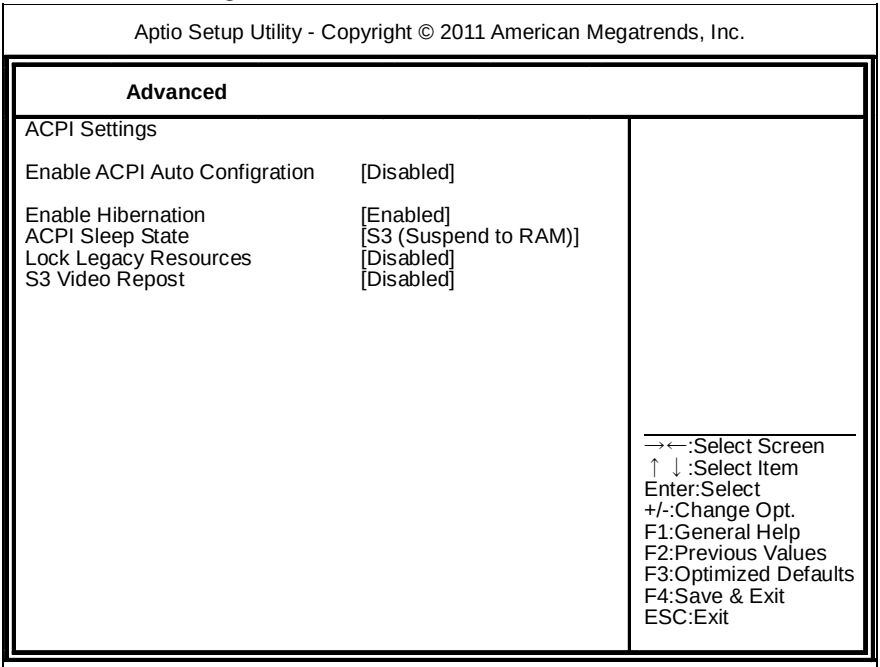


Item	Explanation
Launch PXE OpROM	Enable or Disable Boot Option for Legacy Netwotk Devices.
Launch Storage OpROM	Enable or Disable Boot Option for Legacy Mass Storage Devices with Option ROM.

ACPI Settings

This section configures the system ACPI parameters.

Table 5.4. ACPI Settings

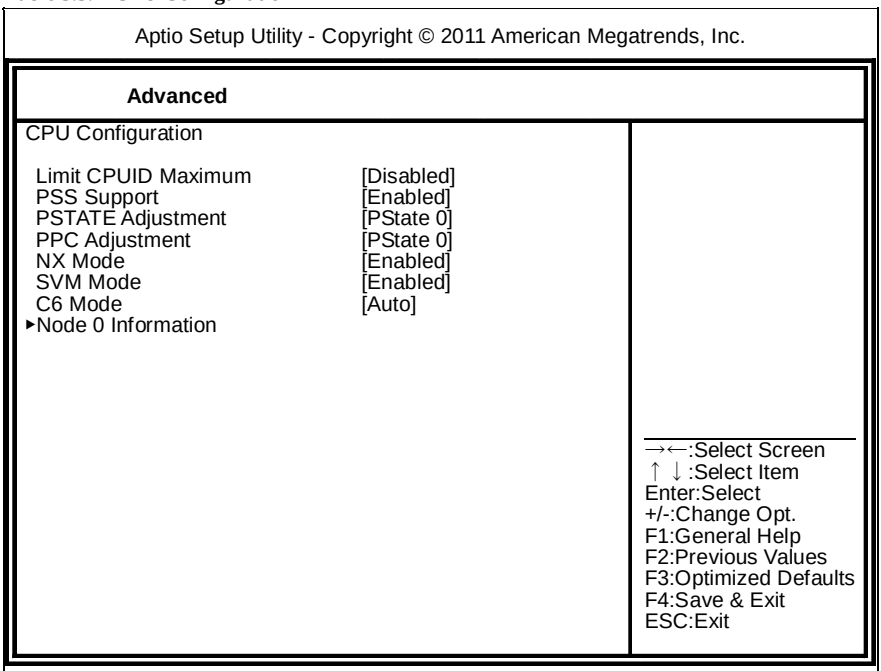


Item	Explanation
Enabled ACPI Auto Configuration	Enables or Disables BIOS ACPI Auto Configuration.
Enable Hibernation	Enables or Disables System ability to Hibernate (OS/S4 Sleep State). This option may be not effective with some OS.
ACPI Sleep State	Selected the highest ACPI sleep state the system will enter, when the SUSPEND button is pressed.
Lock legacy Resources	Enabled or Disabled Lock of Legacy Resources.
S3 Video Repost	Enabled or Disabled S3 Video Report.

CPU Configuration

This section shows the CPU configuration parameters.

Table 5.5. CPU Configuration



Item	Explanation
Limit CPUID Maximum	Disabled for Windows XP.
PSS Support	Enabled / Disabled the generation of ACPI_PPC, and_PCT objects.
PSTATE Adjustment	Provide to adjust setup P-state level.
PPC adjustment	Provide to adjust_PPC object.
NX Mode	Enabled / Disabled NO-execute page protection Function.
SVM Mode	Enabled / Disabled CPU Virtualization.
C6 Mode	Enabled / Disabled C6.
Node 0 Information	View Memory Information related to Node 0.

IDE Configuration

This section shows the IDE devices configuration.

Table 5.6. IDE Configuraiton

Aptio Setup Utility - Copyright © 2011 American Megatrends, Inc.

Advanced

IDE Configuration

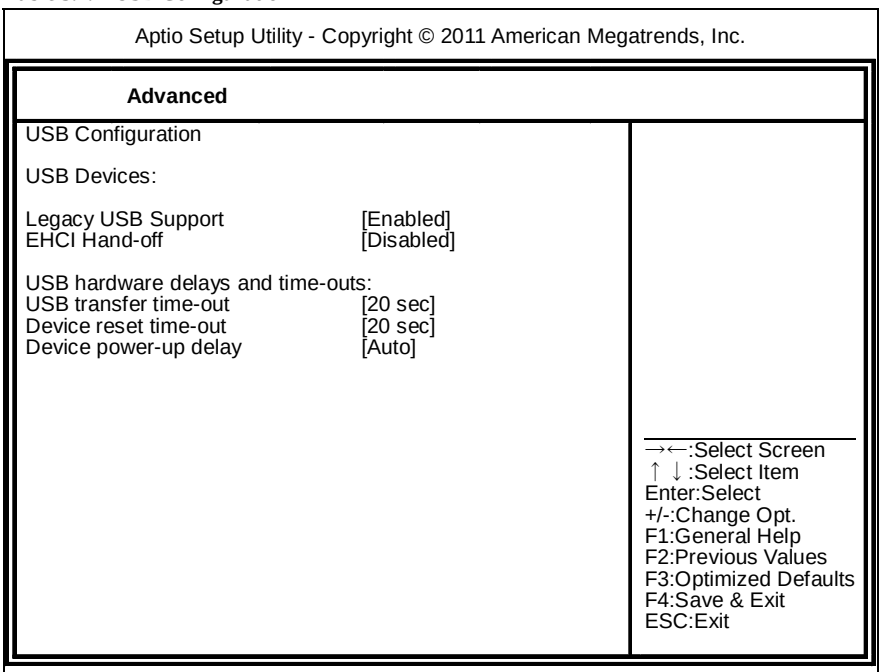
SATA Port0	16GB SATA Flas(16.1G
SATA Port1	Not Present
SATA Port2	Not Present
SATA Port3	Not Present
SATA Port4	Not Present
SATA Port5	Not Present

→←:Select Screen
↑ ↓:Select Item
Enter:Select
+/-:Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit

Item	Explanation
Serial-ATA Controller	Enabled / Disabled Serial ATA Controller.

USB Configuration

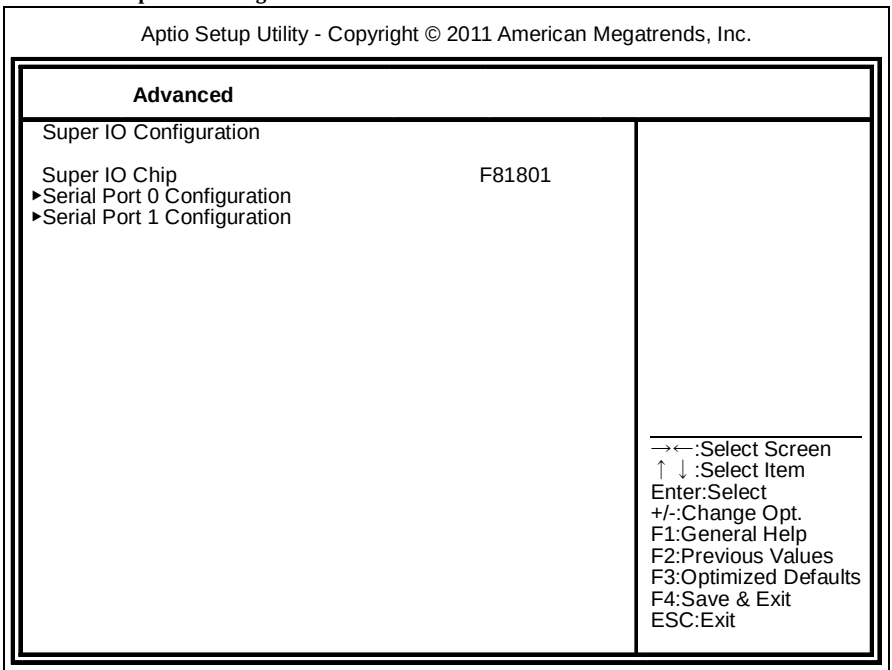
Table 5.7. USB Configuration



Item	Explanation
Legacy USB Support	Enables Legacy USB support. AUTO Option disableds legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.
EHCI Hand-off	Enabled/Disabled. This is a workaround for Oses without EHCI hand-off support. The EHCI ownership change should be Claimed by EHCI driver.
USB transfer time-out	The time-out value for Control, Bulk, and Interrupt transfers.
Device reset time-out	USB mass storage device Start Unit command time-out.
Device power-up delay	Maximum time the device Start Unit command time-out.

Super IO Configuration

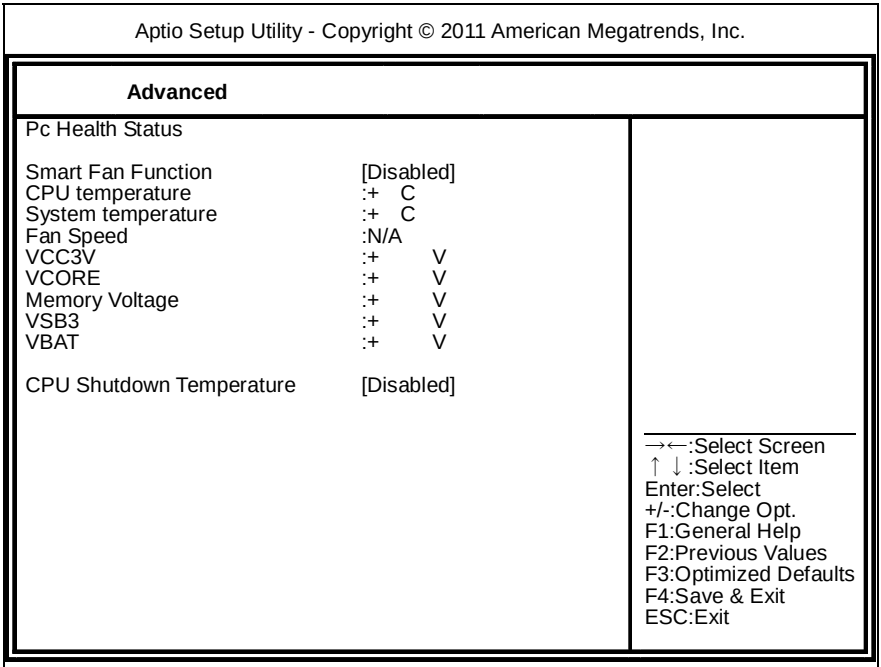
Table 5.8. Super IO Configuration



Item	Explanation
Serial Port 0/1 Configuration	Set Parameters of Serial Port0/1 (COMA/COMB)

H/W Monitor

Table 5.9. H/W Monitor

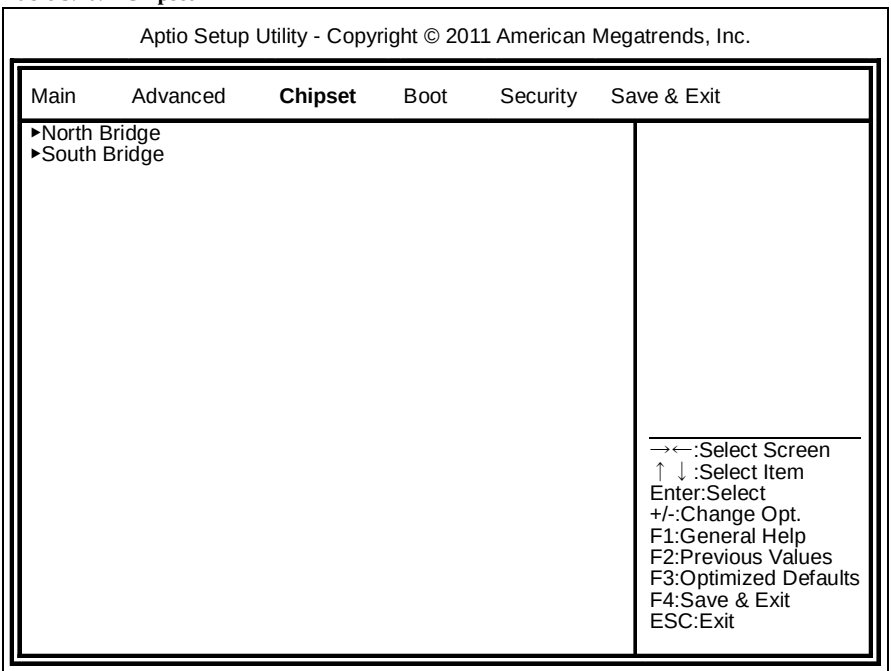


Item	Explanation
Temperatures/Voltages	The values read-only values as monitored by the system and show the PC health status.
CPU Shutdown Temperature	Aside from the Disabled options, this field allows the setting of shutdown temperature from 70C to 95C.

Chipset

This section allows you to configure and improve your system and allows you to set up some system features according to your preference.

Table 5.10. Chipset

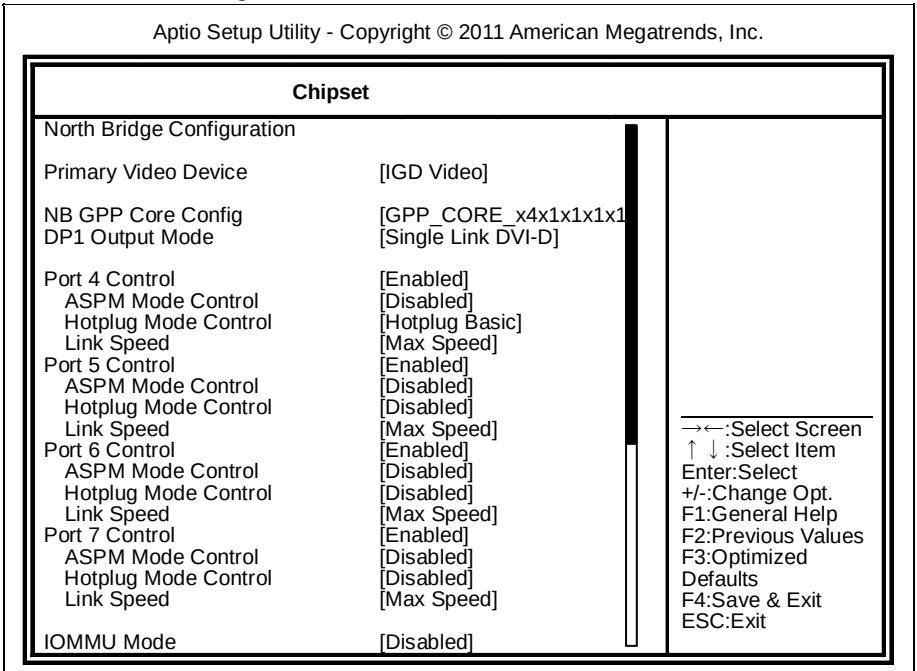


Item	Explanation
North Bridge	This item shows the North Bridge Parameters.
South Bridge	This item shows the South Bridge Parameters.

North Bridge

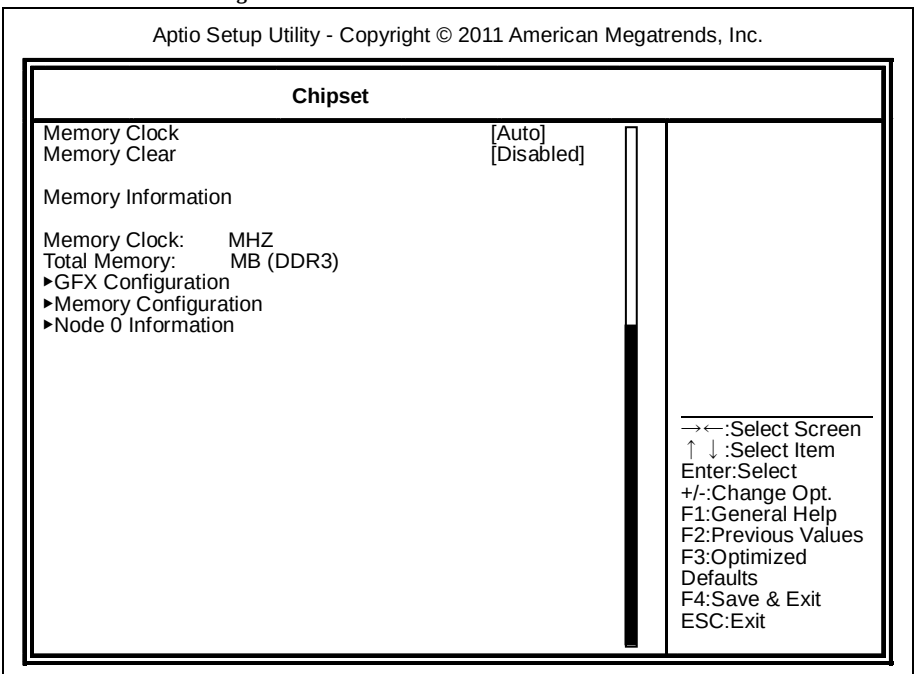
This section allows you to configure the North Bridge Chipset.

. Table 5.11. North Bridge 1/2



Item	Explanation
IOMMU Mode	IOMMU is supported on LINUX based systems to convert 32bit I/O to 64bit MMIO.

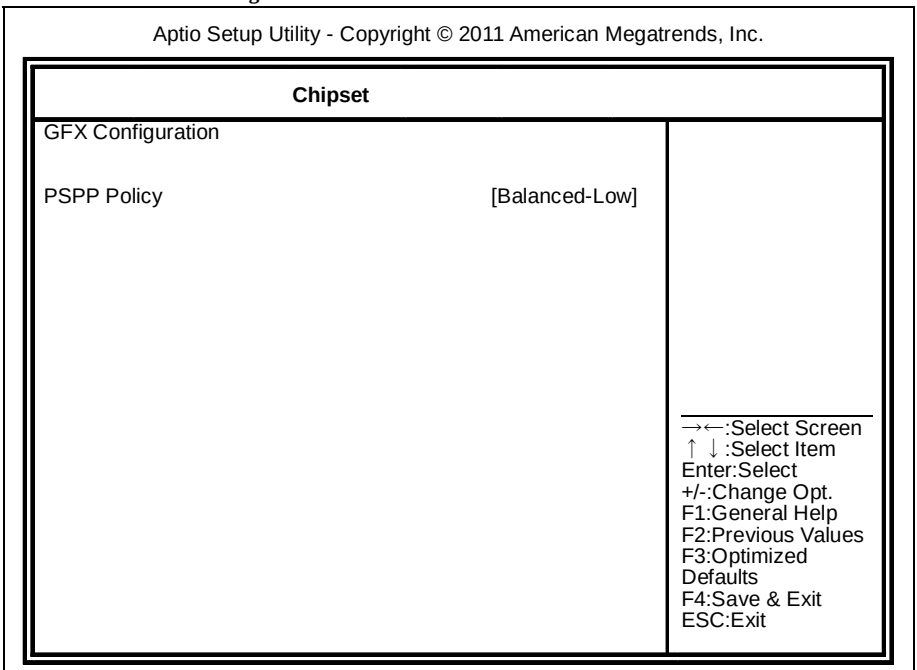
. Table 5.12. North Bridge 2/2



Item	Explanation
Memory Clock	This option allows user to select different memory clock.

GFX Configuration

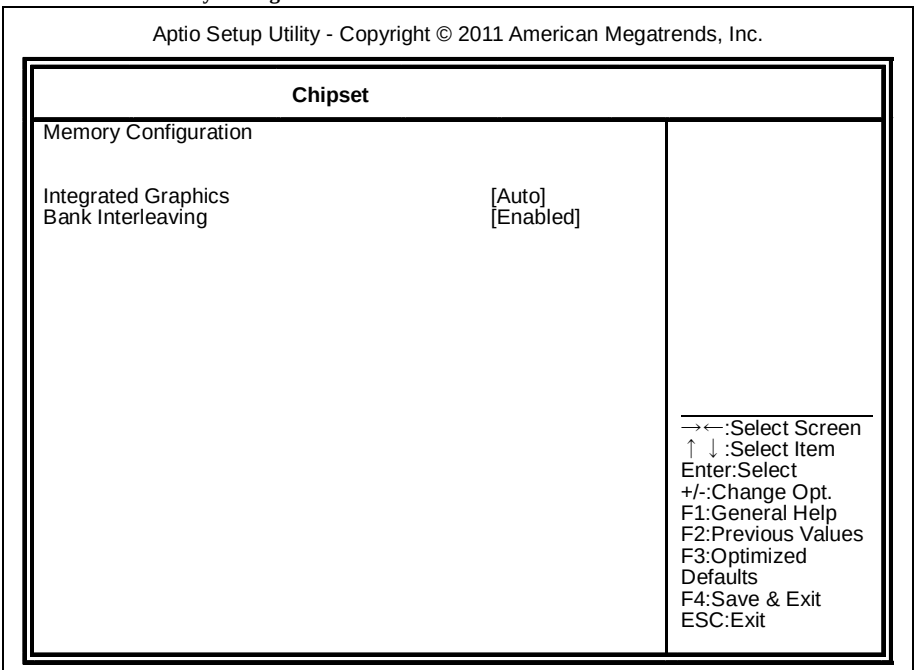
. Table 5.13. GFX Configuration



Item	Explanation
PSPP Policy	PCIe Speed power policy.

Memory Configuration

. Table 5.14. Memory Configuration

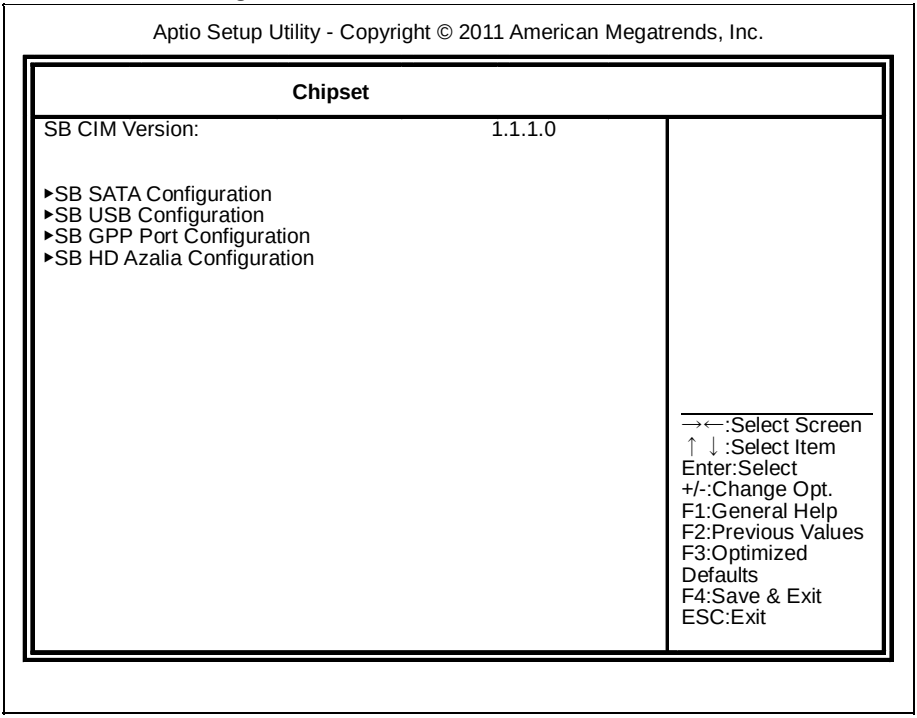


Item	Explanation
Integrated Graphics	Enable Integrate Graphics controller.

South Bridge

This section allows you to configure the South Bridge Chipset.

. Table 5.15. South Bridge



SB SATA Configuration

. Table 5.16. SB SATA Configuration

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Chipset

OnChip SATA Channel	[Enabled]
OnChip SATA Type	[Native IDE]
OnChip IDE mode	[Legacy mode]
SATA IDE Combined Mode	[Enabled]
Combined Mode Option	[SATA as Primary]
SATA ESP on PORT0	[Disabled]
SATA ESP on PORT1	[Disabled]
SATA ESP on PORT2	[Disabled]
SATA ESP on PORT3	[Disabled]
SATA ESP on PORT4	[Disabled]
SATA ESP on PORT5	[Disabled]
SATA Power on PORT0	[Enabled]
SATA Power on PORT1	[Enabled]
SATA Power on PORT2	[Enabled]
SATA Power on PORT3	[Enabled]
SATA Power on PORT4	[Enabled]
SATA Power on PORT5	[Enabled]

→←:Select Screen
↑ ↓:Select Item
Enter:Select
+/-:Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit

Item	Explanation
OnChip SATA Type	Native IDE / n RAID / n AHCI / n Legacy IDE / n IDE -> AHCI / n HyperFlash

SB USB Configuration

. Table 5.17. SB USB Configuration

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Chipset

OHCI HC (Bus 0 Dev 18 Fn 0)	[Enabled]
OHCI HC (Bus 0 Dev 19 Fn 0)	[Enabled]
OHCI HC (Bus 0 Dev 22 Fn 0)	[Enabled]
OHCI HC (Bus 0 Dev 20 Fn 5)	[Enabled]
USB PORT 0	[Enabled]
USB PORT 1	[Enabled]
USB PORT 2	[Enabled]
USB PORT 3	[Enabled]
USB PORT 4	[Enabled]
USB PORT 5	[Enabled]
USB PORT 6	[Enabled]
USB PORT 7	[Enabled]
USB PORT 8	[Enabled]
USB PORT 9	[Enabled]
USB PORT 10	[Enabled]
USB PORT 11	[Enabled]
USB PORT 12	[Enabled]
USB PORT 13	[Enabled]
USB PORT FL0	[Enabled]
USB PORT FL1	[Enabled]
USB Device Wakeup From S3 or S4	[Enabled]

→←:Select Screen
↑ ↓:Select Item
Enter:Select
+/-:Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit

SB GPP Port Configuration

. Table 5.18. SB GPP Port Configuration

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Chipset		
SB GPP Function	[Enabled]	→←:Select Screen ↑ ↓:Select Item Enter:Select +/-:Change Opt. F1:General Help F2:Previous Values F3:Optimized Defaults F4:Save & Exit ESC:Exit
GPP Port Link Configuration	[1:1:1:1 mode]	
Hide Unused GPP Ports	[Enabled]	
NB-SB PHY PLL Power Down	[Enabled]	
SB GPP PHY PLL Power Down	[Enabled]	
SB GPP LANE REVERSAL	[Disabled]	

SB HD Azalia Configuration

. Table 5.19. SB HD Azalia Configuration

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Chipset

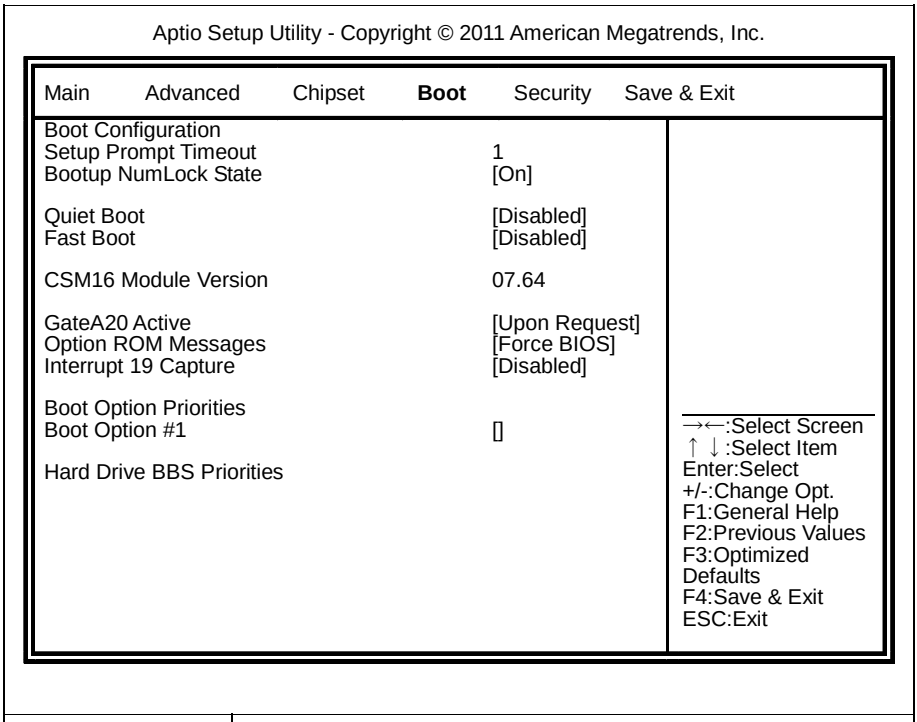
HD Audio Azalia Device	[Enabled]
HD Onboard PIN Config	[Enabled]
Azalia Front Panel	[Auto]
SDIN0 Pin Config	[Azalia]
SDIN1 Pin Config	[Azalia]
SDIN2 Pin Config	[Azalia]
SDIN3 Pin Config	[Azalia]
Azalia Snoop	[Disabled]

→←:Select Screen
↑ ↓:Select Item
Enter:Select
+/-:Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit

Boot

This section allows you to configure the boot settings according to your preference.

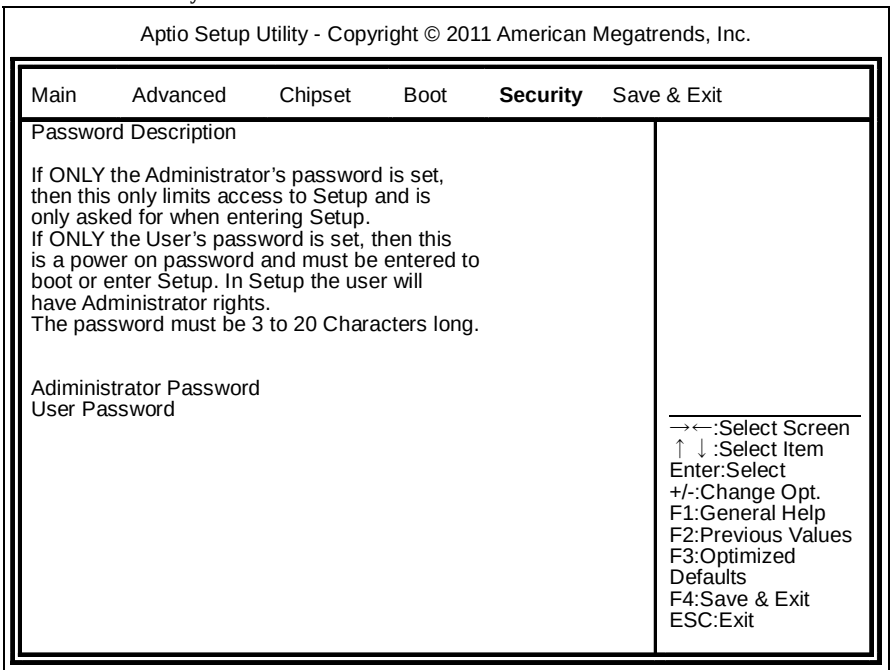
. Table 5.20. Boot



Item	Explanation
Setup Prompt Timeout	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.
Bootup NumLock State	Select the keyboard Numlock state.
Quiet Boot	Enables / Disables Quiet option.
GateA20 Active	UPON REQUEST – GA20 can be disabled using BIOS serivices.
Option ROM Messages	Set display mode for Option ROM. Options are Force BIOS and Keep Current.
Interrupt 19 Canture	Enable:Allows Option ROMs to trap Int 19.

Security

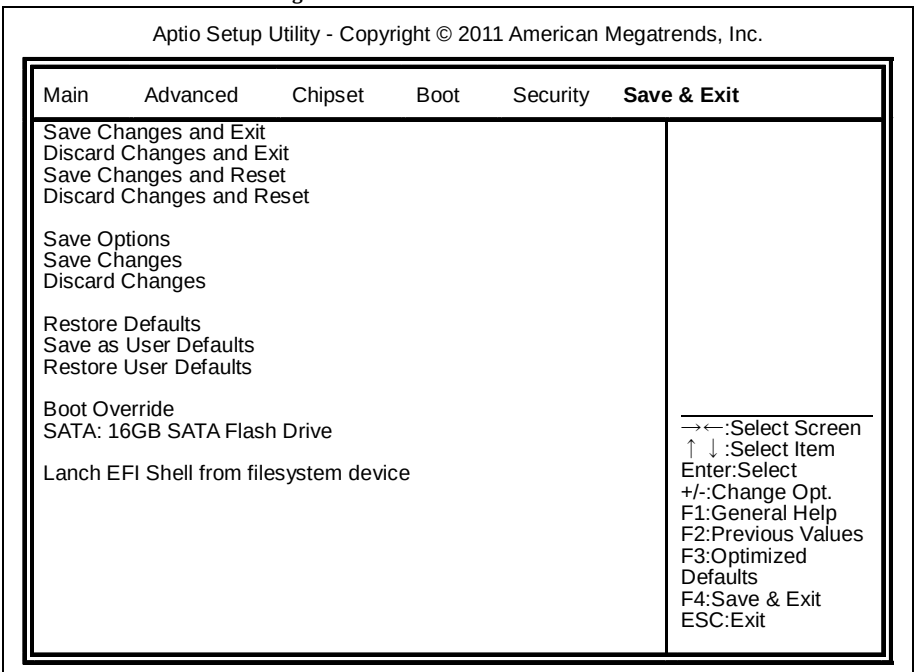
Table 5.21. Security


Aptio Setup Utility - Copyright © 2011 American Megatrends, Inc.
Main Advanced Chipset Boot Security Save & Exit
Password Description
If ONLY the Administrator's password is set, then this only limits access to Setup and is only asked for when entering Setup.
If ONLY the User's password is set, then this is a power on password and must be entered to boot or enter Setup. In Setup the user will have Administrator rights.
The password must be 3 to 20 Characters long.
Adiministrator Password
User Password
→←:Select Screen
↑ ↓:Select Item
Enter:Select
+/-:Change Opt.
F1:General Help
F2:Previous Values
F3:Optimized Defaults
F4:Save & Exit
ESC:Exit

Item	Explanation
Administrator Password	Set Setup Administrator Password.
User Password	Set User Password.

Save & Exit Settings

Table 5.22. Save & Exit Settings



Item	Explanation
Save Changes and Exit	Exit system setup after saving the changes.
Disacard Changes and Exit	Exit system setup without saving any changes.
Save Changes and Reset	Reset the system after saving the changes.
Discard Changes and Reset	Reset system setup without saving any changes.
Save Changes	Save Changes done so far to any of the setup options.
Discard Changes	Discard Changes done so far to any of the setup options.
Restore Defaults	Restore / Load Defaults values for all the setup options.
Save as User Defaults	Save the changes done so far as User Defaults.
Restore User Defaults	Restore the User Defaults to all the setup options.
Boot Override	Pressing ENTER causes the system to enter the OS.
Launch EFI Shell from h device	Attempts to launch EFI Shell application (Shellx64.efi)from one of the available filesystem devices.

6. Appendix

Battery

Battery Specification

This product uses the following battery/

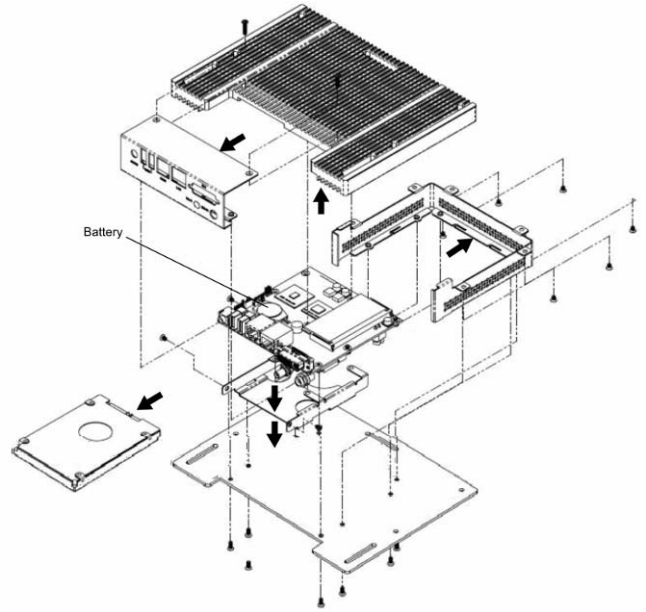
- Type :Lithium primary battey
- Model :CR2032
- Maker :Panasonic
- Nominal voltage :3V
- Nominal capacity :220mAh
- Lithium content :1g or less

Removing the battery

Remove the battery according to the following figure.

Disposing the battery

Dispose the removed battery properly in accordance with local requirements.



DS-080D Series

User's Manual

DS-080D-DCxxxx

CONTEC CO.,LTD.

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3-9-31, Himesato, Nishiyodogawa-ku, Osaka 555-0025, Japan

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